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5	BRS	L5	5	"6766348"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/07/11 12:57

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7	BRS	L7	2	"6665701".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/07/11 12:59
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9	BRS	L9	32	boeing.as. and "703"/$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/07/11 13:03

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1 Development and application of NASA's first standard spacecraft computer

Charles E. Trevathan, Thomas D. Taylor, Raymond G. Hartenstein, Ann C. Merwarth, William N. Stewart

September 1984 **Communications of the ACM**, Volume 27 Issue 9

Publisher: ACM Press

Full text available: pdf(1.26 MB) Additional Information: full citation, abstract, citings, index terms

To provide the autonomy needed by low, earth-orbiting satellites, NASA's first standard on-board processor requires changing only interfacing hardware from mission to mission.

Keywords: PASS, avionics system

2 TCP extensions for space communications

Robert C. Durst, Gregory J. Miller, Eric J. Travis

October 1997 **Wireless Networks**, Volume 3 Issue 5

Publisher: Kluwer Academic Publishers

Full text available: pdf(375.24 KB) Additional Information: full citation, abstract, references, citings, index terms

The space communication environment and mobile and wireless communication environments show many similarities when observed from the perspective of a transport protocol. Both types of environments exhibit loss caused by data corruption and link outage, in addition to congestion-related loss. The constraints imposed by the two environments are also similar—power, weight, and physical volume of equipment are scarce resources. Finally, it is not uncommon for communication channel data ra ...

3 TCP extensions for space communications

Robert C. Durst, Gregory J. Miller, Eric J. Travis

November 1996 **Proceedings of the 2nd annual international conference on Mobile computing and networking**

Publisher: ACM Press

Full text available: pdf(1.58 MB) Additional Information: full citation, references, citings, index terms

4 The space shuttle primary computer system

Alfred Spector, David Gifford

September 1984 **Communications of the ACM**, Volume 27 Issue 9
Publisher: ACM Press
Full text available: pdf(5.34 MB) Additional Information: full citation, references, citings, index terms

Keywords: PASS, avionics system, space shuttle

5 Declarative control architecture

Wolf Kohn
August 1991 **Communications of the ACM**, Volume 34 Issue 8
Publisher: ACM Press
Full text available: pdf(5.04 MB) Additional Information: full citation, references, citings, index terms, review

6 Annotated bibliography of the proceedings of the annual simulation symposium (1968-1991)

Ross A. Gagliano, Martin D. Fraser
April 1992 **Proceedings of the 25th annual symposium on Simulation ANSS '92**
Publisher: IEEE Computer Society Press
Full text available: pdf(1.45 MB) Additional Information: full citation, references, index terms

7 Panel: perspectives on software engineering

David Notkin, Marc Donner, Michael D. Ernst, Michael Gorlick, E. James Whitehead
July 2001 **Proceedings of the 23rd International Conference on Software Engineering**
Publisher: IEEE Computer Society
Full text available: pdf(77.11 KB) Publisher Site Additional Information: full citation, abstract, references, index terms

This panel gives a non-standard view of the future of software engineering. Two of the speakers are recent Ph.D. graduates in computer science, with expertise in software engineering, who have taken academic positions; as people who will educate the next generation of software engineering practitioners and researchers, they provide a key vision of the future. The other two speakers are senior, having moved from the research community into a world in which they face the problems of engineer ...

8 Practitioners report: Programming with non-heap memory in the real time specification for Java

Greg Bollella, Tim Canham, Vanessa Carson, Virgil Champlin, Daniel Dvorak, Brian Giovannoni, Mark Indictor, Kenny Meyer, Alex Murray, Kirk Reinholtz
October 2003 **Companion of the 18th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications**
Publisher: ACM Press
Full text available: pdf(227.11 KB) Additional Information: full citation, abstract, references, index terms

The Real-Time Specification for Java (RTSJ) provides facilities for deterministic, real-time execution in a language that is otherwise subject to variable latencies in memory allocation and garbage collection. A major consequence of these facilities is that the normal Java practice of passing around references to objects in heap memory cannot be used in hard real-time activities. Instead, designers must think carefully about what type

of non-heap memory to use and how to transfer data between co ...

Keywords: architecture, programming model, scoped memory

9 Pen computing: a technology overview and a vision

André Meyer
July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3
Publisher: ACM Press
Full text available: pdf(5.14 MB) Additional Information: full citation, abstract, citings, index terms

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions.Starting with a short historic ...

10 Emulation as a design tool in the development of real-time control systems

Howard M. Bloom, Cita M. Furlani, Anthony J. Barbera
January 1984 **Proceedings of the 16th conference on Winter simulation**
Publisher: IEEE Press
Full text available: pdf(715.06 KB) Additional Information: full citation, abstract, references, index terms

A major facility for manufacturing research is being established at the National Bureau of Standards. The Automated Manufacturing Research Facility (AMRF) will provide testbed where measurement research of computer integrated manufacturing systems can be performed. The control architecture of the facility is based on a sensory-interactive, modular, hierarchical, feedback system. Each module is represented as a finite state machine that interacts through a shared time-sliced common-memory wh ...

11 NeuroAnimator: fast neural network emulation and control of physics-based models

Radek Grzeszczuk, Demetri Terzopoulos, Geoffrey Hinton
July 1998 **Proceedings of the 25th annual conference on Computer graphics and interactive techniques**
Publisher: ACM Press
Full text available: pdf(28.26 MB) Additional Information: full citation, references, citings, index terms

Keywords: backpropagation, dynamical systems, learning, motion control, neural networks, physics-based animation, simulation

12 Industry/government track paper: An approach to spacecraft anomaly detection problem using kernel feature space

Ryohei Fujimaki, Takehisa Yairi, Kazuo Machida
August 2005 **Proceeding of the eleventh ACM SIGKDD international conference on Knowledge discovery in data mining KDD '05**
Publisher: ACM Press
Full text available: pdf(664.07 KB) Additional Information: full citation, abstract, references, index terms

Development of advanced anomaly detection and failure diagnosis technologies for spacecraft is a quite significant issue in the space industry, because the space environment is harsh, distant and uncertain. While several modern approaches based on qualitative reasoning, expert systems, and probabilistic reasoning have been developed recently for this purpose, any of them has a common difficulty in obtaining accurate and

complete *a priori* knowledge on the space systems from human experts. ...

Keywords: anomaly detection, kernel feature space, principal component analysis, spacecraft, time series data, von Mises Fisher distribution

13 Performance of broadcast and unknown server (BUS) in ATM LAN emulation

Hairong Sun, Xinyu Zang, Kishor S. Trivedi

June 2001 **IEEE/ACM Transactions on Networking (TON)**, Volume 9 Issue 3

Publisher: IEEE Press

Full text available: pdf(263.83 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we develop performance models of the Broadcast and Unkn own Server (BUS) in the LANE. The traffic on the BUS is divided into two classes: the broadcast and multicast traffic, and the unicast relay flow. The broadcast and multicast traffic is assumed to form a Markov Modulated Poisson Process (MMPP). The traffic for a particular unicast relay flow is an MMPP as well. However, the number of active unicast relay flows sojourning on the BUS is determined by a tan ...

Keywords: ATM, LAN emulation, broadcast and unknown server, stochastic petri net package, stochastic reward nets

14 Migrating well engineered Ada 83 applications into newer architecture and reuse based Ada 95 systems: experiences from Boeing's reuse initiative project

Scott Arthur Moody

December 1996 **Proceedings of the conference on TRI-Ada '96: disciplined software development with Ada**

Publisher: ACM Press

Full text available: pdf(1.25 MB) Additional Information: full citation, references, citings, index terms

15 Lunar orbiter command and telemetry data handling system at deep space stations

E. Knutson, L. Holgersen, D. R. Merrill

January 1966 **Proceedings of the 1966 21st national conference**

Publisher: ACM Press

Full text available: pdf(1.96 MB) Additional Information: full citation, abstract, references, index terms

The Lunar Orbiter will provide extensive photographic exploration of the lunar surface to aid in the selection of possible landing areas for Project Apollo manned landing mission. The Lunar Orbiter project* is one of the lunar and planetary programs directed by the NASA Langley Research Center. The Boeing Company is the prime spacecraft contractor. There will be five flight spacecraft and three ground test spacecraft. The first flight is scheduled in the middle of 1966. The Lunar ...

16 A blackboard system for planning space missions

G. Pearson

June 1989 **Proceedings of the 2nd international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1 IEA/AIE '89**

Publisher: ACM Press

Full text available: pdf(521.78 KB) Additional Information: full citation, references, index terms

17 Tracking Satellites with PREDICT

John A. Magliacane
July 2000 **Linux Journal**
Publisher: Specialized Systems Consultants, Inc.
Full text available: html(21.37 KB) Additional Information: full citation, abstract, references, index terms

A look at the development and use of an open-source satellite-tracking and orbital-prediction program.

18 COGENT: cognitive agent to amplify human perception and cognition

Subrata Das, Dan Grecu
June 2000 **Proceedings of the fourth international conference on Autonomous agents**
Publisher: ACM Press
Full text available: pdf(1.06 MB) Additional Information: full citation, references, citings, index terms

Keywords: cognitive agent, decision aiding, event generation, information filtering, situation assessment, visualization

19 CATO (Computer Algorithm for Trajectory Optimization): an implementation of Fortran 95 object-based programming

Jack N. Hatfield
April 2003 **ACM SIGPLAN Fortran Forum**, Volume 22 Issue 1
Publisher: ACM Press
Full text available: pdf(452.12 KB) Additional Information: full citation

20 The EO-1 Autonomous Science Agent

Steve Chien, Rob Sherwood, Daniel Tran, Benjamin Cichy, Gregg Rabideau, Rebecca Castano, Ashley Davies, Rachel Lee, Dan Mandl, Stuart Frye, Bruce Trout, Jerry Hengemihle, Jeff D'Agostino, Seth Shulman, Stephen Ungar, Thomas Brakke, Darrell Boyer, Jim Van Gaasbeck, Ronald Greeley, Thomas Doggett, Victor Baker, James Dohm, Felipe Ip
July 2004 **Proceedings of the Third International Joint Conference on Autonomous Agents and Multiagent Systems - Volume 1 AAMAS '04**
Publisher: IEEE Computer Society
Full text available: pdf(766.20 KB) Additional Information: full citation, abstract, index terms

An Autonomous Science Agent is currently flying onboard the Earth Observing One Spacecraft. This software enables the spacecraft to autonomously detect and respond to science events occurring on the Earth. The package includes software systems that perform science data analysis, deliberative planning, and run-time robust execution. Because of the deployment to a remote spacecraft, this Autonomous Science Agent has stringent constraints of autonomy, reliability, and limited computing resources. W ...

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  John Colter, Netscape Navigator
  ```

- Enclose a phrase in double quotes to search for that exact phrase.

  ```
  "museum of natural history" "museum of modern art"
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- Exclude pages by using a - if a search term must not appear on a page.

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  museum -Paris
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museum +"natural history" dinosaur -Chicago
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museum +"natural history" dinosaur -Chicago
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